

RAW SEQUENCE LISTING

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Application Serial Number: 10/5336324
Source: PCT
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/533,634

DATE: 05/12/2005

TIME: 09:44:23

Input Set : A:\379604.txt

Output Set: N:\CRF4\05122005\J533634.raw

P.W.F

3 <110> APPLICANT: THE UNITED STATES OF AMERICA AS REPRESENTED BY THE
 4 SECRETARY OF THE DEPARTMENT OF HEALTH AND HUMAN SERVICES
 5 Klinman, Dennis M.
 6 Ivins, Bruce
 7 Verthelyi, Daniela
 9 <120> TITLE OF INVENTION: METHOD OF PREVENTING INFECTIONS FROM BIOTERRORISM AGENTS

WITH

10 IMMUNOSTIMULATORY CpG OLIGONUCLEOTIDES
 12 <130> FILE REFERENCE: 4239-67021-06
 C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/533,634
 C--> 14 <141> CURRENT FILING DATE: 2005-04-29
 14 <150> PRIOR APPLICATION NUMBER: PCT/US2003/034523
 15 <151> PRIOR FILING DATE: 2003-10-31
 17 <150> PRIOR APPLICATION NUMBER: US 60/422,964
 18 <151> PRIOR FILING DATE: 2002-11-01
 20 <160> NUMBER OF SEQ ID NOS: 199
 22 <170> SOFTWARE: PatentIn version 3.2
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 20
 26 <212> TYPE: DNA
 27 <213> ORGANISM: Artificial sequence
 29 <220> FEATURE:
 30 <223> OTHER INFORMATION: CpG D oligonucleotide
 33 <220> FEATURE:
 34 <221> NAME/KEY: misc_feature
 35 <222> LOCATION: (1)..(2)
 36 <223> OTHER INFORMATION: n is any base, or no base at all
 38 <400> SEQUENCE: 1

W--> 39 nntgcacatcga tgcagggggg

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42 <210> SEQ ID NO: 2
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 44 <212> TYPE: DNA
 45 <213> ORGANISM: Artificial sequence
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 48 <223> OTHER INFORMATION: CpG D oligonucleotide
 51 <220> FEATURE:
 52 <221> NAME/KEY: misc_feature
 53 <222> LOCATION: (1)..(2)

54 <223> OTHER INFORMATION: n is any base, or no base at all
 56 <400> SEQUENCE: 2

W--> 57 nntgcacccgg tgcagggggg

20

60 <210> SEQ ID NO: 3
 61 <211> LENGTH: 20
 62 <212> TYPE: DNA

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63 <213> ORGANISM: Artificial sequence
65 <220> FEATURE:
66 <223> OTHER INFORMATION: CpG D oligonucleotide
69 <220> FEATURE:
70 <221> NAME/KEY: misc_feature
71 <222> LOCATION: (1)..(2)
72 <223> OTHER INFORMATION: n is any base, or no base at all
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83 <220> FEATURE:
84 <223> OTHER INFORMATION: CpG D oligonucleotide
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88 <221> NAME/KEY: misc_feature
89 <222> LOCATION: (1)..(2)
90 <223> OTHER INFORMATION: n is any base, or no base at all
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106 <221> NAME/KEY: misc_feature
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124 <221> NAME/KEY: misc_feature
125 <222> LOCATION: (1)..(2)
126 <223> OTHER INFORMATION: n is any base, or no base at all
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133 <211> LENGTH: 20
134 <212> TYPE: DNA
135 <213> ORGANISM: Artificial sequence

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137 <220> FEATURE:
138 <223> OTHER INFORMATION: CpG D oligonucleotide
141 <220> FEATURE:
142 <221> NAME/KEY: misc_feature
143 <222> LOCATION: (1)..(2)
144 <223> OTHER INFORMATION: n is any base, or no base at all
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161 <222> LOCATION: (1)..(2)
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174 <223> OTHER INFORMATION: CpG D oligonucleotide
176 <400> SEQUENCE: 9
177 atcgat 6
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182 <212> TYPE: DNA
183 <213> ORGANISM: Artificial sequence
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207 <213> ORGANISM: Artificial sequence
209 <220> FEATURE:

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Input Set : A:\379604.txt
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222 <223> OTHER INFORMATION: CpG D oligonucleotide
224 <400> SEQUENCE: 13
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230 <212> TYPE: DNA
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236 <400> SEQUENCE: 14
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242 <212> TYPE: DNA
243 <213> ORGANISM: Artificial sequence
245 <220> FEATURE:
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248 <400> SEQUENCE: 15
249 ggtgcatacgta tacagggggg 20
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253 <211> LENGTH: 20
254 <212> TYPE: DNA
255 <213> ORGANISM: Artificial sequence
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260 <400> SEQUENCE: 16
261 ggtgcgtcgat tgcagggggg 20
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266 <212> TYPE: DNA
267 <213> ORGANISM: Artificial sequence
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270 <223> OTHER INFORMATION: CpG D oligonucleotide
272 <400> SEQUENCE: 17
273 gcttagacgtt agcggt 15
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277 <211> LENGTH: 10
278 <212> TYPE: DNA
279 <213> ORGANISM: Artificial sequence
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282 <223> OTHER INFORMATION: CpG D oligonucleotide

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Input Set : A:\379604.txt
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285 tcaaacgttga 10
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289 <211> LENGTH: 15
290 <212> TYPE: DNA
291 <213> ORGANISM: Artificial sequence
293 <220> FEATURE:
294 <223> OTHER INFORMATION: Control D oligonucleotide
296 <400> SEQUENCE: 19
297 gctagagctt aggct 15
300 <210> SEQ ID NO: 20
301 <211> LENGTH: 10
302 <212> TYPE: DNA
303 <213> ORGANISM: Artificial sequence
305 <220> FEATURE:
306 <223> OTHER INFORMATION: Control D oligonucleotide
308 <400> SEQUENCE: 20
309 tcaagcgttga 10
312 <210> SEQ ID NO: 21
313 <211> LENGTH: 20
314 <212> TYPE: DNA
315 <213> ORGANISM: Artificial sequence
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320 <400> SEQUENCE: 21
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324 <210> SEQ ID NO: 22
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326 <212> TYPE: DNA
327 <213> ORGANISM: Artificial sequence
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330 <223> OTHER INFORMATION: CpG D oligonucleotide
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333 ggtgcaccgg tgccaggggggg 20
336 <210> SEQ ID NO: 23
337 <211> LENGTH: 20
338 <212> TYPE: DNA
339 <213> ORGANISM: Artificial sequence
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342 <223> OTHER INFORMATION: CpG D oligonucleotide
344 <400> SEQUENCE: 23
345 atcgactctc gagcgttctc 20
348 <210> SEQ ID NO: 24
349 <211> LENGTH: 12
350 <212> TYPE: DNA
351 <213> ORGANISM: Artificial sequence
353 <220> FEATURE:
354 <223> OTHER INFORMATION: CpG D oligonucleotide
356 <400> SEQUENCE: 24

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Input Set : A:\379604.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 1,2
Seq#:2; N Pos. 1,2
Seq#:3; N Pos. 1,2
Seq#:4; N Pos. 1,2
Seq#:5; N Pos. 1,2
Seq#:6; N Pos. 1,2
Seq#:7; N Pos. 1,2
Seq#:8; N Pos. 1,2
Seq#:44; N Pos. 1,2,3,10,11,12
Seq#:45; N Pos. 1,2,3,10,11,12,13
Seq#:46; N Pos. 1,2,3,10,11,12,13,14 ~
Seq#:47; N Pos. 1,2,3,10,11,12,13,14,15
Seq#:48; N Pos. 1,2,3,10,11,12,13,14,15,16
Seq#:49; N Pos. 1,2,3,10,11,12,13,14,15,16,17
Seq#:50; N Pos. 1,2,3,10,11,12,13,14,15,16,17,18
Seq#:51; N Pos. 1,2,3,10,11,12,13,14,15,16,17,18,19
Seq#:52; N Pos. 1,2,3,10,11,12,13,14,15,16,17,18,19,20
Seq#:53; N Pos. 1,2,3,10,11,12,13,14,15,16,17,18,19,20,21
Seq#:54; N Pos. 1,2,3,10,11,12,13,14,15,16,17,18,19,20,21,22
Seq#:55; N Pos. 1,2,3,10,11,12
Seq#:56; N Pos. 1,2,3,10,11,12,13
Seq#:57; N Pos. 1,2,3,10,11,12,13,14
Seq#:58; N Pos. 1,2,3,10,11,12,13,14,15
Seq#:59; N Pos. 1,2,3,10,11,12,13,14,15,16
Seq#:60; N Pos. 1,2,3,10,11,12,13,14,15,16,17
Seq#:61; N Pos. 1,2,3,10,11,12,13,14,15,16,17,18
Seq#:62; N Pos. 1,2,3,10,11,12,13,14,15,16,17,18,19
Seq#:63; N Pos. 1,2,3,10,11,12,13,14,15,16,17,18,19,20
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Seq#:65; N Pos. 1,2,3,10,11,12,13,14,15,16,17,18,19,20,21,22
Seq#:66; N Pos. 1,2,3,10,11,12
Seq#:67; N Pos. 1,2,3,10,11,12,13
Seq#:68; N Pos. 1,2,3,10,11,12,13,14
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Seq#:71; N Pos. 1,2,3,10,11,12,13,14,15,16,17
Seq#:72; N Pos. 1,2,3,10,11,12,13,14,15,16,17,18
Seq#:73; N Pos. 1,2,3,10,11,12,13,14,15,16,17,18,19
Seq#:74; N Pos. 1,2,3,10,11,12,13,14,15,16,17,18,19,20
Seq#:75; N Pos. 1,2,3,10,11,12,13,14,15,16,17,18,19,20,21
Seq#:76; N Pos. 1,2,3,10,11,12,13,14,15,16,17,18,19,20,21,22
Seq#:77; N Pos. 1,2,3,10,11,12
Seq#:78; N Pos. 1,2,3,10,11,12,13
Seq#:79; N Pos. 1,2,3,10,11,12,13,14

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Input Set : A:\379604.txt
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Seq#:80; N Pos. 1,2,3,10,11,12,13,14,15
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Seq#:83; N Pos. 1,2,3,10,11,12,13,14,15,16,17,18
Seq#:84; N Pos. 1,2,3,10,11,12,13,14,15,16,17,18,19
Seq#:85; N Pos. 1,2,3,10,11,12,13,14,15,16,17,18,19,20
Seq#:86; N Pos. 1,2,3,10,11,12,13,14,15,16,17,18,19,20,21

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Input Set : A:\379604.txt
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L:14 M:270 C: Current Application Number differs, Replaced Current Application No
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:39 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:57 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:75 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:93 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:147 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:608 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:0
L:631 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:0
L:654 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:0
L:677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0
L:700 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:0
L:723 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0
L:746 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:0
L:769 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:0
L:792 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:0
L:815 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:0
L:838 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:0
L:861 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:0
L:884 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:0
L:907 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:0
L:930 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:0
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L:999 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:0
L:1022 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:0
L:1045 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:0
L:1068 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:0
L:1091 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:0
L:1114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:0
L:1137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67 after pos.:0
L:1160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:0
L:1183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:0
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L:1321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75 after pos.:0
L:1344 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:0
L:1367 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77 after pos.:0
L:1390 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:0
L:1413 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:0
L:1436 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:0
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L:1482 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82 after pos.:0
L:1505 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:83 after pos.:0
L:1528 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:0
L:1551 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:0